MANUAL ERVICE



SERVICE SAFETY PRECAUTIONS (UL)

- 1. Use exact replacement parts for critical locations marked " /! "
- 2. Return lead dress to original position and re-install protective covers.
- 3. Before returning to customer, test for shock hazard; use either mothod A or B:
- A. Leakage test "cold":
 - 1. Unplug the AC cord; turn power switch ON.
 - 2. Connect one lead of High Voltage Insulation Tester to both prongs of the AC plug.
 - 3. Touch other lead to all exposed metal parts.
 - 4. Impedance measurement must be 0.3-5.0 Megohms.
- B. Leakage test, "live":
 - 1. Plug unit directly into the AC outlet: do not use isolation transformer.
- 2. Connect one lead of the Leakage Current Tester to earth ground.
- 3. Touch other lead to all exposed metal parts.
- 4. Leakage measurement must be less than 0.5 milliamps.

214/216 STEREO POWER AMPLIFIER

214/216 STEREO POWER AMPLIFIER

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the state of the state of the model 216 on	, lv
NOTE: The "A", given after an item number, refers to the part number for the model 216 on	шy.

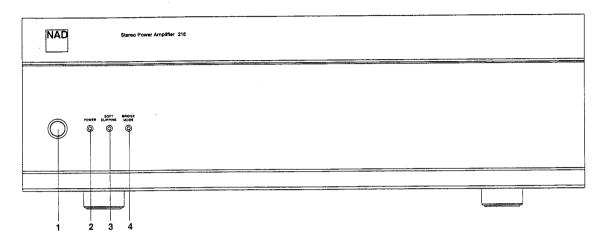
SPECIFICATIONS

Specifications are measured in accordance with EIA Standard RS-490 (IHF T-202) for amplifiers.

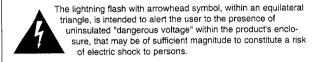
STEREO MODE		214	216
Continuous Power Output(20Hz/1kHz/20kHz at rated THD)	8 ohms 4 ohms	80W 120W	125W 200W
Clipping Power at 0.1%THD(1kHz)	8 ohms 4 ohms	95W 150W	150W 250W
Rated THD (with 80kHz LPF)20Hz/1kHz/20kHz at rated power		0.03%	0.03%
Soft Clipping THD, 1kHz Output Reduction		10% 1dB	10% 1dB
Signal/Noise Ratio, 1kHz(A-weighted, 220 ohm load) ref. 8 ohms rate		96.5dB 115.5dB	96.5dB 117.5dB
Frequency Response	. 20Hz 20kHz	0~-0.3dB -0.2~-0.8dB	0~0.3dB -0.2~-0.8dB
Input Sensitivity, 1kHz(Rated output into 8 ohms)		895±30mV	1120±40mV
Channel Separation	1kHz 10kHz	75dB 58dB	75dB 58dB
Damping Factor(at 50Hz/8 ohms)		200	200
Dynamic Power	8 ohms 4 ohms 2 ohms	110W 180W 250W	170W 280W 400W
BRIDGE MODE			
Continuous Power Output (20Hz/1kHz/20kHz at rated THD with 80kHz LPF)	8 ohms	240W	400W
Input Sensitivity(Rated output into 8 ohms)		775±40mV	1000±50mV
PHYSICAL			
Dimensions (Width x Height x Depth)	435	x 128 x 370mm	435 x 146 x 370mm
Gross weight	•••••	12.5kg (27.5lbs)	15.5kg (34.1lbs)
Power consumption at 120, 220 or 240VAC,	50/60Hz	384VA	540VA

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FRONT PANEL



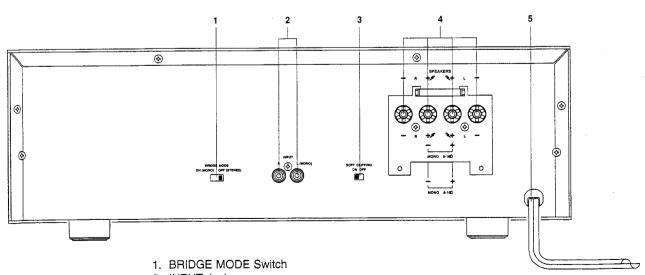
- 1. POWER Switch
- 2. POWER Indicator
- 3. SOFT CLIPPING Indicator
- 4. BRIDGE MODE Indicator





The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

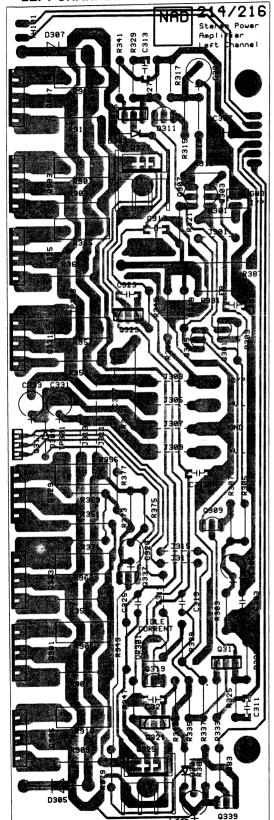
REAR PANEL



- 2. INPUT Jacks
- 3. SOFT CLIPPING Switch
- 4. SPEAKER OUTPUT Terminals
- 5. AC POWER CORD

PCB LAYOUT

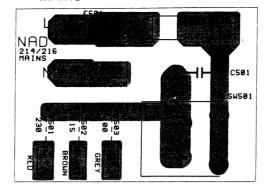
LEFT CHANNEL



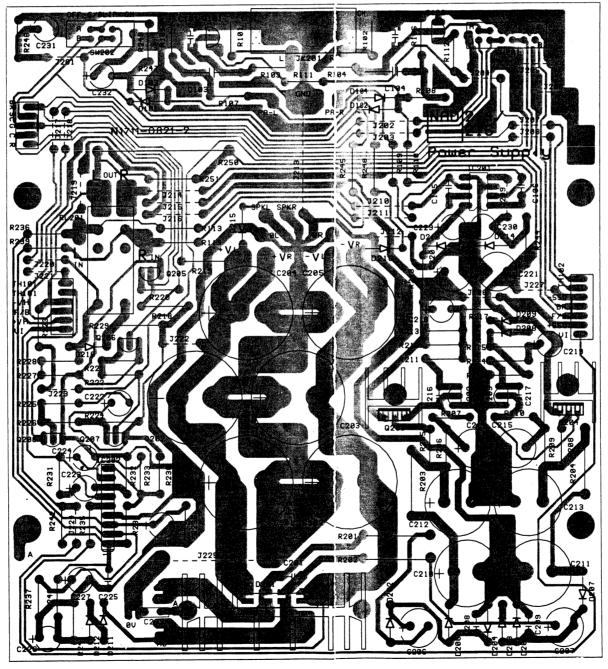




MAINS



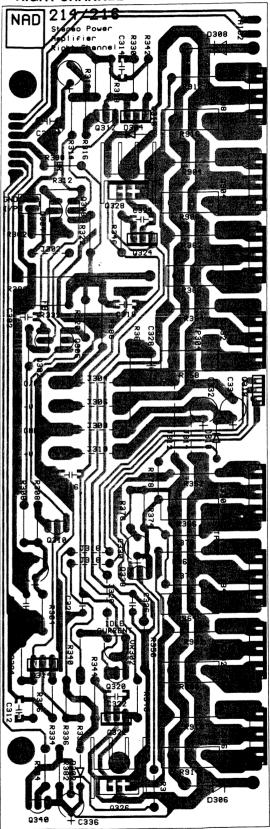
POWER SUPPLY







RIGHT CHANNEL

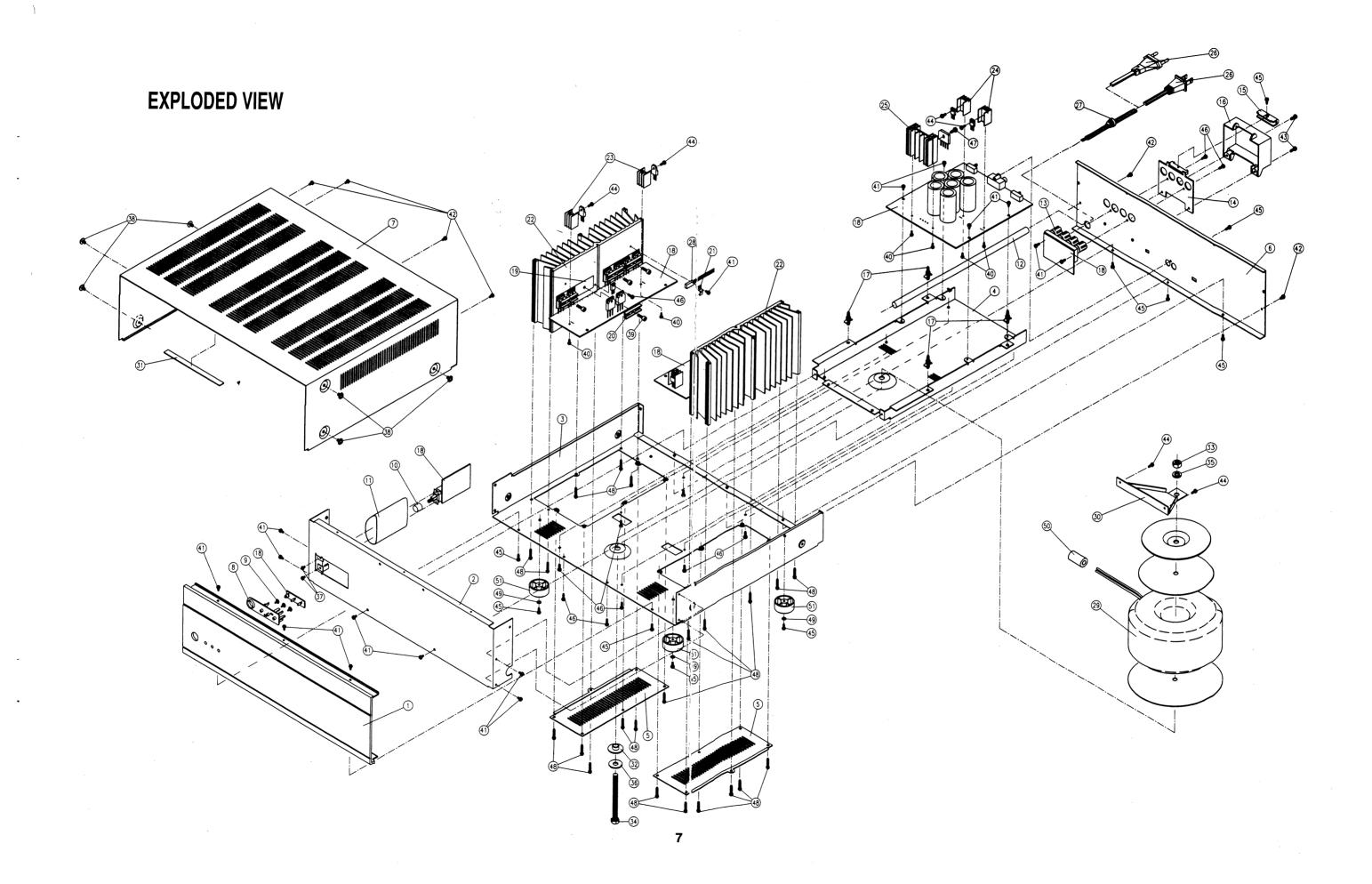


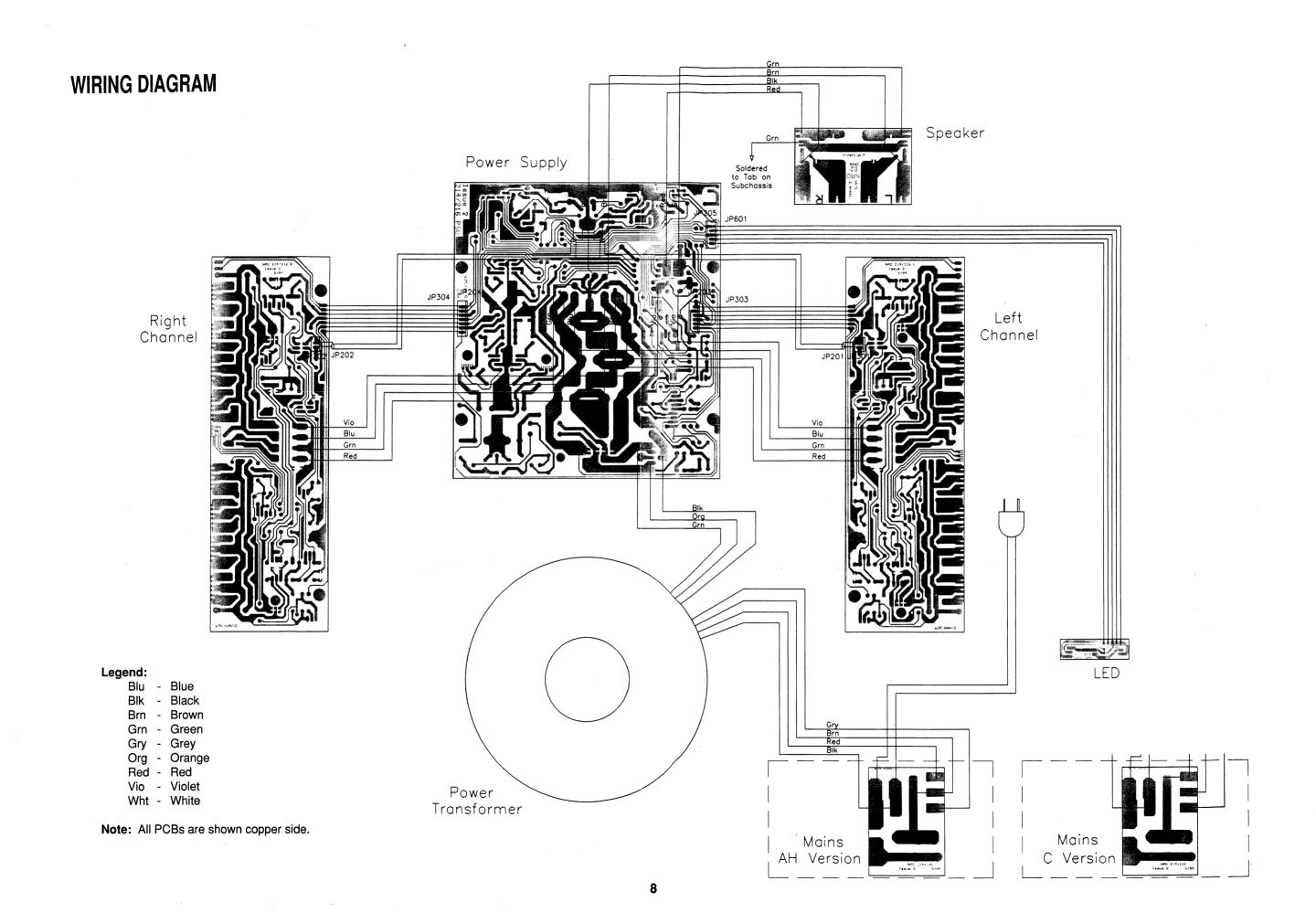
EXPLODED VIEW PARTS LIST

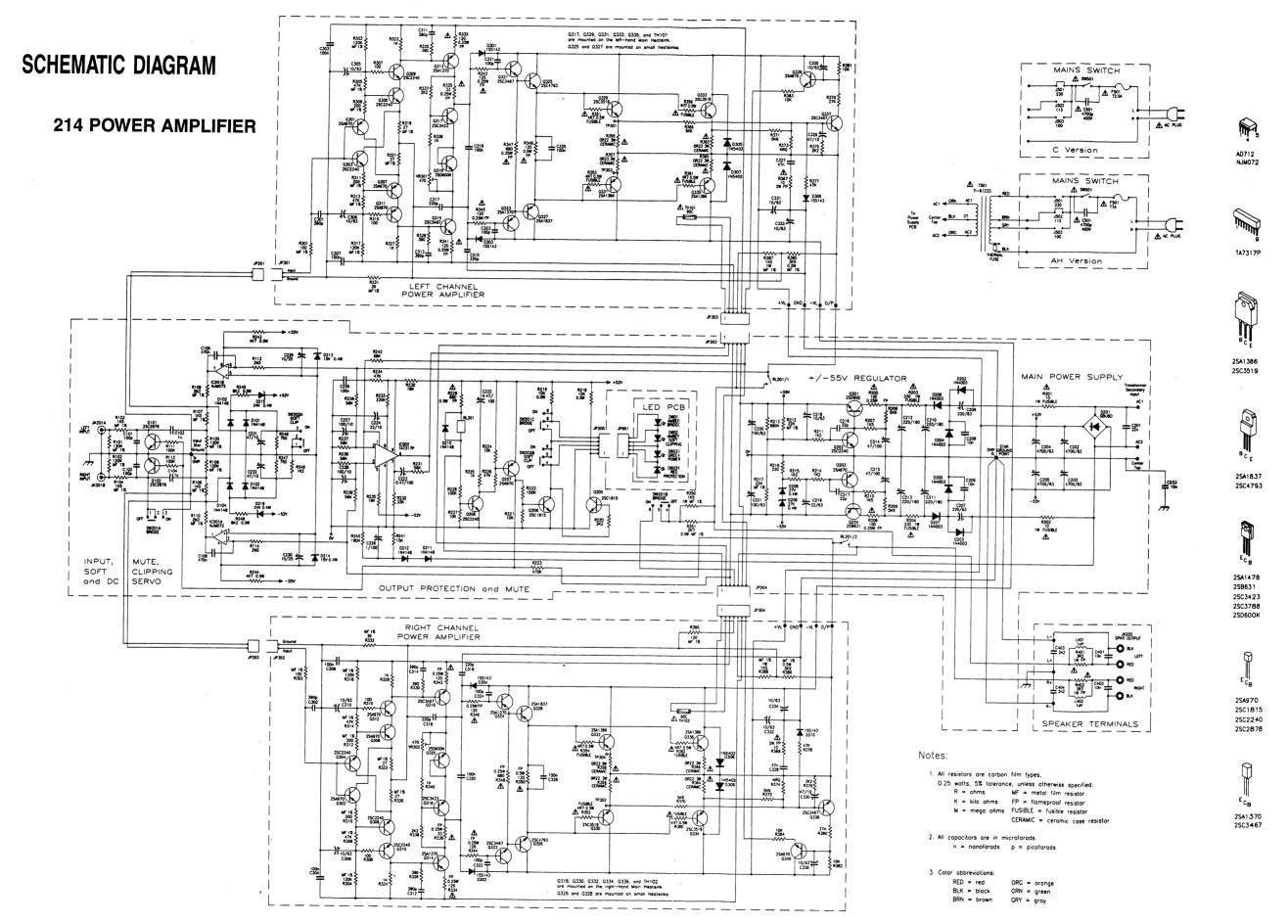
ITEM NO.	PART NUMBER	DESCRIPTION	QT
1	N14619601-1	Fascia 214	1
1 A	N14620601-1	Fascia 216	1
2	N14023250-1	Subfascia 214	1
2 A	N14023350-1	Subfascia 216	1
3	N14023270-1	Base Plate	1
4	N14023290-1	Subchassis	1
5	N14023300-0	Access Cover	2
6 *AH	N14023260-1	Rear Panel 214 AH	1
6 *C	N14023320-1	Rear Panel 214 C	1
6 A*AH	N14023360-0	Rear Panel 216 AH	1
6 A*C	N14023370-1	Rear Panel 216 C	1
7	N14023280-0	Top Cover 214	1
, 7 A	N14023380-0	Top Cover 216	1
8	N41519991-0	Bezel	1
9	N41520011-0	Clear LED Lens	3
10	N2437640B-0	Power Button	1
11	N16600600-0	Shrinkage Tube ID=38.1mm 0.07m	1
12	N16600710-0	Sleeve Tube ID=10mm 0.3m	1
13 *C	N21038004-0	Speaker Terminal with Plug C	1
13 *AH	N21038104-0	Speaker Terminal without Plug AH	1
14 A*AH	N41520022-0	UL Box Backplate Pantone 420 Grey AH	1
15 A*AH	N41520022 0	UL Box Saddle AH	1
16 A*AH	N41519981-0	UL Box Cover AH	1
17	N41519951-0	PCB Support (LCBS)	4
18	N17110821-2	214/216 Amp PCB without components	1
19	N31003191-0	Silicon Sheet	8
20	N41321671-0	Transistor Clamp	8
21	N41321661-0	Thermal Mounting Clip	2
22	N54000841-0	Main Heatsink 214	2
22 A	N54000871-0	Main Heatsink 216	2 2 4
23	N54000831-0	Heatsink Power Amplifier	1
24.	N54000851-0	Heatsink Regulator	2
25	N54000821-1	Heatsink Power Supply 214	1
25 A	N54000901-0	Heatsink Power Supply 216	1
26 *AH	N70093100-1	AC Cord 18AWGx2 UL/CSA SPT-2 AH	1
26 *B	N70095100-1	AC Cord ASTA BS1363 with 5A Fuse B	1
26 *B1	N70093100-0 N70091190-1	AC COID ASTA BS1363 WIII SA FUSE B AC COID SAA AS3112 B1	1
26 *C	N70091190-1 N70093110-0	AC COID SAA ASSTIZ BI ZIS	1
27	N41519461-0	Strain Relief Bushing	1
28	N89100055-0	Thermal Breaker UP 7290C	2
29	N18062102-0	Transformer TI-61233with Accessory 214	1
29 29 A	N18062105-0	Transformer TI-61242with Accessory 216	1
30	N41322151-0	Transformer Bracket	1
31	N41519411-0	Cushion 130x10x1.0mm	1
32	N41520331-0	Transformer Bushing	1
33	28368075-0	Nut M8x0.75mm 214	1
34	29078070-2000	Bolt Hexagon Head M8x0.75mm - 70mm 214	1
34 A	N41321891-0	Bolt + Nut Hexagon Head BSW 18TPI - 3.5" 216	1
35 A	28428015-0	Spring Washer M8	1
JJ	20420010-0	Opining Washiel IVIO	1

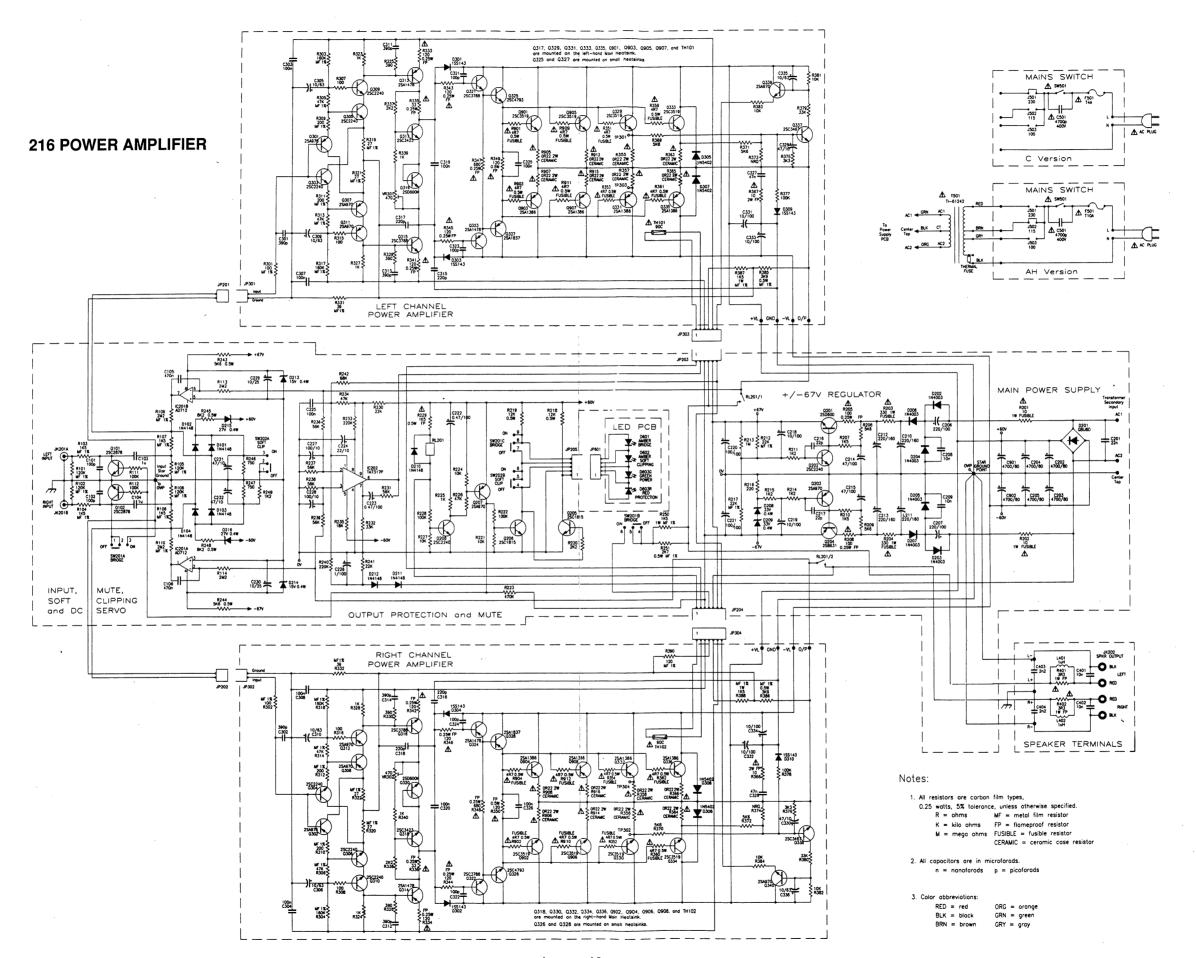
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 A 51	41321971-0 28153042-0 29004006-3010 29084012-3400 29542606-0000 29543006-3000 29543006-3000 29543008-3000 29543008-3000 29543010-3000 29543510-0000 29503516-3100 28423367-0 N18080110-0 N41519371-1	Flat Washer M8x22x1.5mm Screw M3x4mm Screw M4x0.5x6mm with Flat Washer Screw Hexagon Socket Head 4x12mm Screw BT 2.6x6mm Screw B-Tite 3x6mm Yel.Zn Screw B-Tite 3x8mm Blk.Zn Screw S-Tite 3x8mm Blk Screw Tapping 3x8mm Screw B-Tite 3x8mm Blk.Zn Screw B-Tite 3x10mm Blk.Zn Screw B-Tite 3x10mm Blk.Zn Screw B-Tite 3x10mm Blk.Zn Screw B-Tite 3x5x10mm Yel.Zn Screw B-Tite 3.5x10mm Yel.Zn Screw B-Tite 3.5x16mm Metal Washer ID=3.3mm OD=6.7mm Ferrite Core 33RH15.5x28.5x7.3 216 Rubber Foot	1 2 6 8 8 17 6 2 8 11 12 1 22 4 1

6









ELECTRICAL PARTS LIST

SYMBOL NO.	PARTNUMBER		DESCRIPTI	ON		REMARKS
0404 0400	NATIONAL LE LO	Consolter Delivet	e 250V	100pF	±5%	
C101, C102	N158R101J-5-IQ	Capacitor, Polystyren	e 230V 63V	1uF	±10%	
C103, C104	153I105K-9-NL	Capacitor, Mylar		0.47uF	±10%	
C105, C106	153I474K-9-NL	Capacitor, Mylar	63V			
C201	153R223M-9-NL	Capacitor, Mylar	250V	0.022uF		014
C202, C203	N89100057-0	Capacitor, Electrolytic		4700uF	±20%	214
C202, C203 A	89100062-0	Capacitor, Electrolytic		4700uF	±20%	216
C204, C205	N89100057-0	Capacitor, Electrolytic		4700uF	±20%	214
C204, C205 A	89100062-0	Capacitor, Electrolytic		4700uF	±20%	216
C206, C207 A	157H227M-5-5&	Capacitor, Electrolytic		220uF	±20%	216
C206, C207	N157l227M-5-S9	Capacitor, Electrolytic		220uF		214
C208, C209	153R103M-9-NL	Capacitor, Mylar	250V	0.01uF		
C210, C211	N89100056-0	Capacitor, Electrolytic	: 160V	220uF	±20%	
C212, C213	N89100056-0	Capacitor, Electrolytic	: 160V	220uF	±20%	
C214, C215	157H476M-5-S5	Capacitor, Electrolytic	100V	47uF	±20%	
C216, C217	15CG220J-7-IJ	стс	0/30	22pF	±5%	
C218, C219 A	157H106M-5-LU	Capacitor, Electrolytic		10uF	±20%	216
C218	N157l106M-5-IU	Capacitor, Electrolytic		10uF	±20%	214
C219	N157I226M-5-IU	Capacitor, Electrolytic		22uF	±20%	214
C220, C221 A	157H107M-5-X9	Capacitor, Electrolytic		100uF	±20%	216
C220, C221	N157I107M-5-SX	Capacitor, Electrolytic		100uF	±20%	214
C222, C223	N157H474M-5-IU	Capacitor, Electrolytic		0.47uF	±20%	
C224	157C226M-5-IU	Capacitor, Electrolytic		、 22uF	±20%	
C225	153H104M-9-NL	Capacitor, Mylar	100V	0.1uF	±20%	
	!	Capacitor, Electrolytic		1uF	±20%	
C226	N157H105M-5-IU			100uF	±20%	
C227, C228	157C107M-5-IU	Capacitor, Electrolytic		10uF	±20%	
C229, C230	157E106M-5-IU	Capacitor, Electrolytic			±20%	
C231, C232	157C476M-5-IU	Capacitor, Electrolytic		47uF		214
C233	N150F103K-5-UU	Capacitor, Ceramic	50V	0.01uF	±10%	214
C301, C302	N158F391J-5-IQ	Capacitor, Polystyren		390pF	±5%	
C303, C304	153H104M-9-NL	Capacitor, Mylar	100V	0.1uF	±20%	
C305, C306	157l106M-5-IU	Capacitor, Electrolytic		10uF	±20%	
C307, C308	153H104M-9-NL	Capacitor, Mylar	100V	0.1uF	±20%	
C309, C310	157I106M-5-IU	Capacitor, Electrolytic		10uF	±20%	
C311, C312	N158F391J-5-IQ	Capacitor, Polystyren		390pF	±5%	
C313, C314	N158F391J-5-IQ	Capacitor, Polystyren		390pF	±5%	
C315, C316	N158K221J-5-IQ	Capacitor, Polystyren		220pF	±5%	
C317, C318	N158K221J-5-IQ	Capacitor, Polystyren		220pF	±5%	
C319, C320	153H104M-9-NL	Capacitor, Mylar	100V	0.1uF	±20%	
C321, C322	N158R101J-5-IQ	Capacitor, Polystyren	e 250V	100pF	±5%	
C323, C324	N158R101J-5-IQ	Capacitor, Polystyren	e 250V	100pF	±5%	
C325, C326	153H104M-9-NL	Capacitor, Mylar	100V	0.1uF	±20%	
C327, C328	153H473K-9-SW	Capacitor, Mylar	100V	0.047uF	±10%	
C329, C330	157C476M-5-IU	Capacitor, Electrolytic		47uF	±20%	
C331, C332 A	157H106M-5-LU	Capacitor, Electrolytic		10uF	±20%	216
C331, C332	N157I106M-5-IU	Capacitor, Electrolytic		10uF	±20%	214
C333, C334 A	157H106M-5-LU	Capacitor, Electrolytic		10uF	±20%	216
C333, C334 A	N157I106M-5-IU	Capacitor, Electrolytic		10uF	±20%	214
C335, C334	157I106M-5-IU	Capacitor, Electrolytic		10uF	±20%	
	t .	Capacitor, Mylar	250V	0.01uF	±20%	
C401, C402	153R103M-9-NL			2200pF	±5%	
C403, C404	15CG222J-7-IJ	CTC	0/30			A
C501	N89100049-0	CAP	400V		DE7150F472MVA1KC	<u> </u>
C901, C902 A	89100062-0	Capacitor, Electrolytic	80V	4700uF	±20%	216

SYMBOL NO.	PARTNUMBER		DESCRIPTION	REMARKS
D101 D102	48041480-2	Diode	1N4148	
D101, D102 D103, D104	48041480-2	Diode	1N4148	
•	N48400610-0	Diode, Bridge	GBU8D	
D201	N48040030-2	Diode, Bridge	1N4003	
D202, D203	N48040030-2 N48040030-2	Diode	1N4003	
D204, D205	N48040030-2 N48040030-2	Diode	1N4003	
D206, D207	N483727V0-2	Diode, Zener	0.5W 27V	214
D208, D209	483733V0-2	Diode, Zener	0.5W 33V	216
D208, D209 A	48041480-2	Diode	1N4148	
D210, D211	48041480-2	Diode	1N4148	
D212	48400510-0	Diode, Zener	0.5W 15V	
D213, D214		Diode, Zener	0.5W 24V	214
D215, D216	N48400620-0 483727V0-2	Diode, Zener	0.5W 27V	216
D215, D216 A	48400590-0	Diode, Zener Diode	1SS143	
D301, D302	1	Diode	1SS143	
D303, D304	48400590-0 N48054020-L	Diode	1N5402	
D305, D306	N48054020-L N48054020-L	Diode	1N5402	1
D307, D308		Diode	1SS143	
D309, D310	48400590-0	LED Yellov		
D601, D602	N37003513-Y		reen (L-469HGW)	
D603	N37003517-RG N51001030-3A	Fuse	T10A 125V/250V (UL/CSA)	<u></u> 16AH
F501 A*AH	1	Fuse	T2.5A 250V IEC (SEMKO/VDE)	<u></u> 214C
F501 *C	N51002530-1B	Fuse	T7A 125V (UL/CSA)	<u> </u>
F501 *AH	N51007030-1A	Fuse	T4A 250V SEMKO/VDE	<u> </u>
F501 A*C	51200017-0 N31303560-0	IC	NJM072 (D)	214
IC201	N31303830-0	ic	AD712 (JN) Analog Devices	216
IC201 A	N31303530-0	IC IC	TA7317P	
IC202 JK201	N21037902-0	Twin RCA Jack	YKC21-3539	
1K201 L401, L402	N18040490-0	Spring Coil	1uH 1/9/16.5	
	N48600070-5	Transistor	2SC2878 (A, B)	
Q101, Q102	N48600740-5	Transistor	2SD600K (E, F)	
Q201 Q202	N485240GR-5	Transistor	2SC2240 (G, R)	Ì
Q202 Q203	N48600650-5	Transistor	2SA970 (G, R)	
Q203 Q204	N48600870-5	Transistor	2SB631K (E, F)	
	N4851815Y-5	Transistor	2SC1815-Y	
Q205, Q206 Q207	N48600650-5	Transistor	2SA970 (G, R)	
	N485240GR-5	Transistor	2SC2240 (G, R)	
Q208	N48600650-5	Transistor	2SA970 (G, R)	
Q301, Q302 Q303, Q304	N485240GR-5	Transistor	2SC2240 (G, R)	
Q305, Q304 Q305, Q306	N485240GR-5	Transistor	2SC2240 (G, R)	
•	N48600650-5	Transistor	2SA970 (G, R)	
Q307, Q308	N485240GR-5	Transistor	2SC2240 (G, R)	
Q309, Q310	N48600650-5	Transistor	2SA970 (G, R)	
Q311, Q312	N48600680-5	Transistor	2SA1370 (E)	214
Q313, Q314 Q313, Q314 A	N48600810-5	Transistor	2SA1478 (E)	216
	N48600720-5	Transistor	2SC3467 (E)	214
Q315, Q316		Transistor	2SC3788 (E)	216
Q315, Q316 A	N48600820-5	Transistor	2SC3423 (Y)	
Q317, Q318	N48600790-5	Transistor	2SD600K (E, F)	
Q319, Q320	N48600740-5	Transistor	2SC3467 (E)	214
Q321, Q322	N48600720-5	Transistor	2SC3788 (E)	. 216
Q321, Q322 A Q323, Q324	N48600820-5 N48600680-5	Transistor	2SA1370 (E)	214
	I NASHUMAU-1	: !!@!!3!3[0]	=0/110/0 \=/	

SYMBOL NO.	PARTNUMBER	DESCRIPTION	REMARKS
Q323, Q324 A	N48600810-5	Transistor 2SA1478 (E)	216
Q325, Q326	48601060-5	Transistor 2SC4793	
Q327, Q328	48601050-5	Transistor 2SA1837	
Q329, Q330	N48600730-5	Transistor 2SC3519 (O, P, Y)	
Q331, Q332	N48600690-5	Transistor 2SA1386 (O, P, Y)	
Q333, Q334	N48600730-5	Transistor 2SC3519 (O, P, Y)	
Q335, Q336	N48600690-5	Transistor 2SA1386 (O, P, Y)	
Q337, Q338	N48600720-5	Transistor 2SC3467 (E)	
Q339, Q340	N48600650-5	Transistor 2SA970 (G, R)	
Q901, Q902 A	N48600730-5	Transistor 2SC3519 (O, P, Y)	216
Q903, Q904 A	N48600690-5	Transistor 2SA1386 (O, P, Y)	216
Q905, Q906 A	N48600730-5	Transistor 2SC3519 (O, P, Y)	216
Q907, Q908 A	N48600690-5	Transistor 2SA1386 (O, P, Y)	216
R201, R202	N4718100J-2-F	Resistor Fusible 10	1W 5%
R203, R204	N4718331J-2-F	Resistor Fusible 330	1W 5% 🗘
R205, R208	N4715101J-2-P	Resistor Flame Proof 100 0.	25W 5% 🗘
R229	N4717681J-2-P	Resistor Flame Proof 680	0.5W 5% <u>1</u> 214
R229 A	N4717152J-2-P		0.5W 5% <u>1</u> 216
R333, R334	4715121J-2-P	Resistor Flame Proof 120 0.	25W 5% /
R335, R336	N4715330J-2-P		25W 5% 🗘
R341, R342	4715121J-2-P	Resistor Flame Proof 120 0.	25W 5% 🗘
R343, R344	4715121J-2-P		25W 5% /
R345, R346	4715121J-2-P		25W 5% 🔼
R347, R348	N4715681J-2-P		25W 5%
R349, R350	4717121J-2-P		0.5W 5% 🗘
R351, R352	47174R7J-2-F		0.5W 5% 🗘
R353, R354	47174R7J-2-F		0.5W 5% 🗘
R355, R356	471A022K-5-N	Resistor Ceramic Case 0R22	3W 10%
R355, R356 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% / 216
R357, R358	471A022K-5-N	Resistor Ceramic Case 0R22	3W 10% 214
R357, R358 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10%
R359, R360	47174R7J-2-F	Resistor Fusible 4R7	0.5W 5% 🗘
R361, R362	47174R7J-2-F	Resistor Fusible 4R7	0.5W 5% A
R363, R364	471A022K-5-N	Resistor Ceramic Case 0R22	3W 10% 🗘 214
R363, R364 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% 1216
R365, R366	471A022K-5-N	Resistor Ceramic Case 0R22	3W 10% 214
R365, R366 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% 216
R367, R368	4719100J-1-P	Resistor Flame Proof 10	2W 5% 🗘
R401, R402	N47183R3J-2-P	Resistor Flame Proof 3R3	1W 5%
R901, R902 A	47174R7J-2-F	Resistor Fusible 4R7	0.5W 5% <u>1</u> 216
R903, R904 A	47174R7J-2-F	Resistor Fusible 4R7	0.5W 5% <u>1</u> 216
R905, R906 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% 216
R907, R908 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% 🗘 216
R909, R910 A	47174R7J-2-F	Resistor Fusible 4R7	0.5W 5% <u>A</u> 216
R911, R912 A	47174R7J-2-F	Resistor Fusible 4R7	0.5W 5% 🔯 216
R913, R914 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% 🗘 216
R915, R916 A	4719022K-5-N	Resistor Ceramic Case 0R22	2W 10% / 216
RL201	N45000130-0	Relay DEC DH48D2-0 (M) I	OH 2U
SW201	N52003161-0-01	4PDT Slide Switch SK-42F28-G6TS	
SW202	N52003171-0-01	DPDT Slide Switch SK-22F28-G9TS	
SW501	N52003181-0-01	DPST Push Switch SDDFA3066A	\bigwedge_{\triangle}
TH101,TH102	N89100055-0	Thermal Breaker UP 72 90C	$ $ \triangle
	N47564716-3-06		0615C

ALIGNMENT PROCEDURE

EQUIPMENT

Digital voltmeter (DVM) switched to 200mV DC range.

TEST CONDITIONS

Ensure VR301 and VR302 are set to minimum (fully counterclockwise) before first switching on.

Preheat

Minimum five (5) minutes

Load

No load

Input

No signal

ALIGNMENT

- 1. Connect DVM across TP301 and TP303, Left Channel.
- 2. Adjust VR301, Left channel, for a reading of:

214 20mV ±1.5mV.

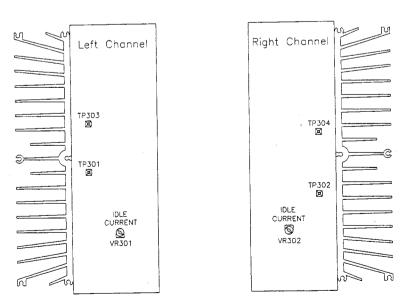
216 18mV ±1.5mV.

- 3. Connect DVM across TP302 and TP304, Right channel.
- 4. Adjust VR302, Right channel, for a reading of:

214 20 mV ±1.5mV.

216 18mV ±1.5mV.

- 5. Leave power on for a further five (5) minutes (minimum).
- 6. Repeat steps 1 to 4.



AMPLIFIER ADJUSTMENT POINTS

PACKING DIAGRAM

ITEM	PART NUMBER	NAME	QTY
52		Unit	1
53	N14971252-0	EPE Bag (214)	1
53 A	N14971162-0	EPE Bag (216)	1
54	N14971072-3	Polybag Unit	1 2
55 55 A	N4901583-0 N4901643-0	Polyfoam (214) Polyfoam (216)	2
56 A	N43013535-0	Instruction Manual	1
57 *AH	N30301057-2	Safety Instruction Sheet	
58 *AH	N30301056-0	Warranty Card (AH)	1
59	N14971062-0	Polybag Manual Gift Box (214)	1 1
60 60 A	N14761401-0 N14761600-0	Gift Box (214) Gift Box (216)	
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